



SEQUENCE LISTING

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<110> Li, Ming

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<141> 1999-08-26

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Val His Thr Ser Pro Pro Pro Glu Ile Leu Lys Asp Lys Ala Leu Val
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Trp Asn Lys Val Leu Tyr Asn Gly Met Ala Ser Thr Ser Ser Trp Ala
980 985 990
Ala Leu Tyr Phe Ile Ala Leu Met Thr Phe Gly Asn Tyr Val Leu Phe
995 1000 1005
Asn Leu Leu Val Ala Ile Leu Val Glu Gly Phe Gln Ala Glu Glu Ile
1010 1015 1020
Gly Lys Arg Glu Asp Ala Ser Gly Gln Leu Ser Cys Ile Gln Leu Pro
1025 1030 1035 1040
Val Asn Ser Gln Gly Gly Asp Ala Thr Lys Ser Glu Ser Glu Pro Asp
1045 1050 1055
Phe Phe Ser Pro Ser Val Asp Gly Asp Gly Asp Arg Lys Lys Arg Leu
1060 1065 1070
Ala Leu Val Ala Leu Gly Glu His Ala Glu Leu Arg Lys Ser Leu Leu
1075 1080 1085
Pro Pro Leu Ile Ile His Thr Ala Ala Thr Pro Met Ser Leu Pro Lys
1090 1095 1100
Ser Ser Ser Thr Gly Val Gly Glu Ala Leu Gly Ser Gly Ser Arg Arg
1105 1110 1115 1120
Thr Ser Ser Ser Gly Ser Ala Glu Pro Gly Ala Ala His His Glu Met
1125 1130 1135
Lys Ser Pro Pro Ser Ala Arg Ser Ser Pro His Ser Pro Trp Ser Ala
1140 1145 1150
Ala Ser Ser Trp Thr Ser Arg Arg Ser Ser Arg Asn Ser Leu Gly Arg
1155 1160 1165
Ala Pro Ser Leu Lys Arg Arg Ser Pro Ser Gly Glu Arg Arg Ser Leu
1170 1175 1180

Leu Ser Gly Glu Gly Gln Glu Ser Gln Asp Glu Glu Glu Ser Ser Glu
 1185 1190 1195 1200
 Glu Asp Arg Ala Ser Pro Ala Gly Ser Asp His Arg His Arg Gly Ser
 1205 1210 1215
 Leu Glu Arg Glu Ala Lys Ser Ser Phe Asp Leu Pro Asp Thr Leu Gln
 1220 1225 1230
 Val Pro Gly Leu His Arg Thr Ala Ser Gly Arg Ser Ser Ala Ser Glu
 1235 1240 1245
 His Gln Asp Cys Asn Gly Lys Ser Ala Ser Gly Arg Leu Ala Arg Thr
 1250 1255 1260
 Leu Arg Thr Asp Asp Pro Gln Leu Asp Gly Asp Asp Asp Asn Asp Glu
 1265 1270 1275 1280
 Gly Asn Leu Ser Lys Gly Glu Arg Ile Gln Ala Trp Val Arg Ser Arg
 1285 1290 1295
 Leu Pro Ala Cys Cys Arg Glu Arg Asp Ser Trp Ser Ala Tyr Ile Phe
 1300 1305 1310
 Pro Pro Gln Ser Arg Phe Arg Leu Leu Cys His Arg Ile Ile Thr His
 1315 1320 1325
 Lys Met Phe Asp His Val Val Leu Val Ile Ile Phe Leu Asn Cys Ile
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 Thr Ile Ala Met Glu Arg Pro Lys Ile Asp Pro His Ser Ala Glu Arg
 1345 1350 1355 1360
 Ile Phe Leu Thr Leu Ser Asn Tyr Ile Phe Thr Ala Val Phe Leu Ala
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 Glu Met Thr Val Lys Val Val Ala Leu Gly Trp Cys Phe Gly Glu Gln
 1380 1385 1390
 Ala Tyr Leu Arg Ser Ser Trp Asn Val Leu Asp Gly Leu Leu Val Leu
 1395 1400 1405
 Ile Ser Val Ile Asp Ile Leu Val Ser Met Val Ser Asp Ser Gly Thr
 1410 1415 1420
 Lys Ile Leu Gly Met Leu Arg Val Leu Arg Leu Leu Arg Thr Leu Arg
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Pro Leu Arg Val Ile Ser Arg Ala Gln Gly Leu Lys Leu Val Val Glu
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 Thr Leu Met Ser Ser Leu Lys Pro Ile Gly Asn Ile Val Val Ile Cys
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 Cys Ala Phe Phe Ile Ile Phe Gly Ile Leu Gly Val Gln Leu Phe Lys
 1475 1480 1485
 Gly Lys Phe Phe Val Cys Gln Gly Glu Asp Thr Arg Asn Ile Thr Asn
 1490 1495 1500
 Lys Ser Asp Cys Ala Glu Ala Ser Tyr Arg Trp Val Arg His Lys Tyr
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 Asn Phe Asp Asn Leu Gly Gln Ala Leu Met Ser Leu Phe Val Leu Ala
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 Ser Lys Asp Gly Trp Val Asp Ile Met Tyr Asp Gly Leu Asp Ala Val
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 Gly Val Asp Gln Gln Pro Ile Met Asn His Asn Pro Trp Met Leu Leu
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 Tyr Phe Ile Ser Phe Leu Leu Ile Val Ala Phe Phe Val Leu Asn Met
 1570 1575 1580
 Phe Val Gly Val Val Val Glu Asn Phe His Lys Cys Arg Gln His Gln
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 Glu Glu Glu Glu Ala Arg Arg Arg Glu Glu Lys Arg Leu Arg Arg Leu
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 Glu Lys Lys Arg Arg Asn Leu Met Leu Asp Asp Val Ile Ala Ser Gly
 1620 1625 1630
 Ser Ser Ala Ser Ala Ala Ser Glu Ala Gln Cys Lys Pro Tyr Tyr Ser
 1635 1640 1645
 Asp Tyr Ser Arg Phe Arg Leu Leu Val His His Leu Cys Thr Ser His
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 Tyr Leu Asp Leu Phe Ile Thr Gly Val Ile Gly Leu Asn Val Val Thr
 1665 1670 1675 1680
 Met Ala Met Glu His Tyr Gln Gln Pro Gln Ile Leu Asp Glu Ala Leu
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Lys Ile Cys Asn Tyr Ile Phe Thr Val Ile Phe Val Phe Glu Ser Val
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 Phe Lys Leu Val Ala Phe Gly Phe Arg Arg Phe Phe Gln Asp Arg Trp
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 1730 1735 1740
 Leu Glu Glu Ile Glu Val Asn Ala Ser Leu Pro Ile Asn Pro Thr Ile
 1745 1750 1755 1760
 Ile Arg Ile Met Arg Val Leu Arg Ile Ala Arg Val Leu Lys Leu Leu
 1765 1770 1775
 Lys Met Ala Val Gly Met Arg Ala Leu Leu Asp Thr Val Met Gln Ala
 1780 1785 1790
 Leu Pro Gln Val Gly Asn Leu Gly Leu Leu Phe Met Leu Leu Phe Phe
 1795 1800 1805
 Ile Phe Ala Ala Leu Gly Val Glu Leu Phe Gly Asp Leu Glu Cys Asp
 1810 1815 1820
 Glu Thr His Pro Cys Glu Gly Leu Gly Arg His Ala Thr Phe Arg Asn
 1825 1830 1835 1840
 Phe Gly Met Ala Phe Leu Thr Leu Phe Arg Val Ser Thr Gly Asp Asn
 1845 1850 1855
 Trp Asn Gly Ile Met Lys Asp Thr Leu Arg Asp Cys Asp Gln Glu Ser
 1860 1865 1870
 Thr Cys Tyr Asn Thr Val Ile Ser Pro Ile Tyr Phe Val Ser Phe Val
 1875 1880 1885
 Leu Thr Ala Gln Phe Val Leu Val Asn Val Val Ile Ala Val Leu Met
 1890 1895 1900
 Lys His Leu Glu Glu Ser Asn Lys Glu Ala Lys Glu Glu Ala Glu Leu
 1905 1910 1915 1920
 Glu Ala Glu Leu Glu Leu Glu Met Lys Thr Leu Ser Pro Gln Pro His
 1925 1930 1935
 Ser Pro Leu Gly Ser Pro Phe Leu Trp Pro Gly Val Glu Gly Val Asn
 1940 1945 1950

Ser Pro Asp Ser Pro Lys Pro Gly Ala Pro His Thr Thr Ala His Ile
 1955 1960 1965
 Gly Ala Ala Ser Gly Phe Ser Leu Glu His Pro Thr Met Val Pro His
 1970 1975 1980
 Pro Glu Glu Val Pro Val Pro Leu Gly Pro Asp Leu Leu Thr Val Arg
 1985 1990 1995 2000
 Lys Ser Gly Val Ser Arg Thr His Ser Leu Pro Asn Asp Ser Tyr Met
 2005 2010 2015
 Cys Arg Asn Gly Ser Thr Ala Glu Arg Ser Leu Gly His Arg Gly Trp
 2020 2025 2030
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 Pro Ala Asp Thr Ser Cys Ile Leu Gln Leu Pro Lys Asp Val His Tyr
 2050 2055 2060
 Leu Leu Gln Pro His Gly Ala Pro Thr Trp Gly Ala Ile Pro Lys Leu
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 2085 2090 2095
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 2115 2120 2125
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 2130 2135 2140
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 2145 2150 2155 2160
 Pro Gly Leu Glu Pro Ser Trp Ala Lys Asp Pro Pro Glu Thr Arg Ser
 2165 2170 2175
 Ser Leu Glu Leu Asp Thr Glu Leu Ser Trp Ile Ser Gly Asp Leu Leu
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 Pro Ser Ser Gln Glu Glu Pro Leu Ser Pro Arg Asp Leu Lys Lys Cys
 2195 2200 2205

Tyr Ser Val Glu Thr Gln Ser Cys Arg Arg Arg Pro Gly Ser Trp Leu
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 2225 2230 2235 2240
 Ser Gln Pro Arg Leu Cys Pro Ser Pro Ser Ser Leu Gly Gly Gln Pro
 2245 2250 2255
 Leu Gly Gly Pro Gly Ser Arg Pro Lys Lys Lys Leu Ser Pro Pro Ser
 2260 2265 2270
 Ile Ser Ile Asp Pro Pro Glu Ser Gln Gly Ser Arg Pro Pro Cys Ser
 2275 2280 2285
 Pro Gly Val Cys Leu Arg Arg Arg Ala Pro Ala Ser Asp Ser Lys Asp
 2290 2295 2300
 Pro Ser Val Ser Ser Pro Leu Asp Ser Thr Ala Ala Ser Pro Ser Pro
 2305 2310 2315 2320
 Lys Lys Asp Thr Leu Ser Leu Ser Gly Leu Ser Ser Asp Pro Thr Asp
 2325 2330 2335
 Met Asp Pro Val Leu Pro Thr Leu Pro His His Leu Ser Pro Pro Gly
 2340 2345 2350
 Ala Asp Pro Ser Ser Ala Ser Trp Ala Ala Phe Leu Lys Ser Pro Thr
 2355 2360 2365
 Ala Ala Ser Ser His Glu Ala Pro His Leu Pro Ser Ser Val Ala Gly
 2370 2375 2380
 Gly Asp Asp Glu Gln Asn Phe Arg Arg Val Asp Leu Lys Arg Thr Gln
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 Trp Pro Arg Leu Pro Thr Pro Gly Ala
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Sequence

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